

Claims

1. Conveyor belt (1) having a bearing side (2) and a backing side (3) made of elastomer material, as well as an embedded reinforcement carrier (4), characterized in that the backing side (3) is reinforced with ball-type elements (5).
2. Conveyor belt according to claim 1, characterized in that the ball-type elements (5) are disposed within at least one layer (6).
3. Conveyor belt according to claim 2, characterized in that the ball-type elements (5) are disposed within a single layer (6).
4. Conveyor belt according to claim 2 or 3, characterized in that the layer(s) (6) is/are disposed close to the reinforcement carrier (4).
5. Conveyor belt according to claim 2 or 3, characterized in that the layer(s) is/are disposed approximately in the center of the backing side (3), specifically with reference to the thickness of the backing side.
6. Conveyor belt according to claim 2 or 3, characterized in that layer(s) is/are disposed close to the surface of the backing side (3), specifically with complete embedding.
7. Conveyor belt according to one of claims 1 to 6, characterized in that the ball-type element reinforcement

extends essentially over the entire width of the conveyor belt.

8. Conveyor belt according to one of claims 1 to 6, characterized in that the ball-type element reinforcement extends partially, with reference to the width of the conveyor belt, for example in the center or in the two edge regions of the conveyor belt.
9. Conveyor belt according to one of claims 1 to 8, characterized in that the ball-type element reinforcement extends essentially over the entire length of the conveyor belt.
10. Conveyor belt according to one of claims 1 to 8, characterized in that the ball-type element reinforcement extends partially with reference to the length of the conveyor belt.
11. Conveyor belt according to one of claims 1 to 10, characterized in that the ball-type elements (5) consist of plastic.
12. Conveyor belt according to claim 11, characterized in that the ball-type elements consist of polyurethane (PUR) or polyoxymethylene (POM).
13. Conveyor belt according to one of claims 1 to 10, characterized in that the ball-type elements (5) consist of glass.

14. Conveyor belt according to one of claims 1 to 10, characterized in that the ball-type elements (5) consist of a metallic material.
15. Conveyor belt according to claim 14, characterized in that the ball-type elements (5) consist of steel, particularly a steel that has been hardened throughout, or of aluminum or lead.
16. Conveyor belt according to one of claims 1 to 15, characterized in that the ball-type elements (5) have essentially the same diameter.
17. Conveyor belt according to one of claims 1 to 16, particularly in connection with claim 16, characterized in that the diameter of the ball-type elements (5) is 1 to 5 mm.
18. Conveyor belt according to claim 17, characterized in that the diameter of the ball-type elements (5) is 3 to 4 mm.
19. Conveyor belt according to one of claims 1 to 18, particularly in connection with claim 2 or 3 characterized in that the elastomer density of the ball-type element reinforcement is 1.0 to 2.0 g/cm³.
20. Conveyor belt according to claim 19, characterized in that the elastomer density of the ball-type element reinforcement is 1.1 to 1.6 g/cm³.